

~~【書類名】~~ 図面

~~図 1~~ Fig. 1

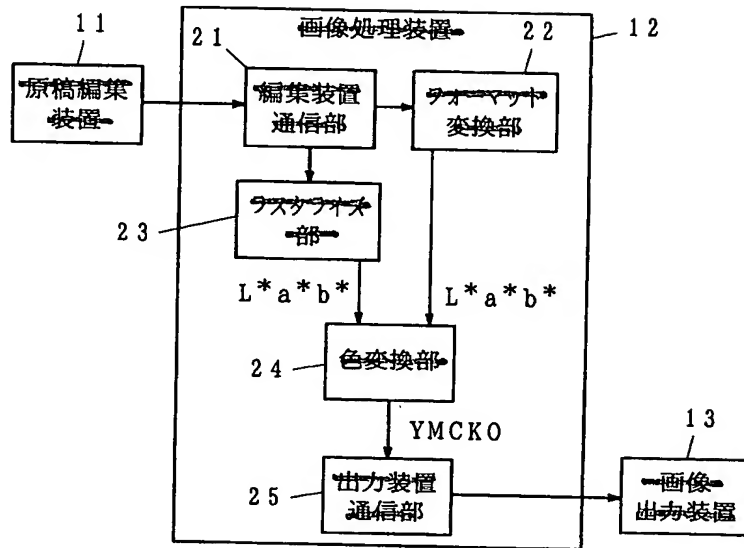


Fig. 2

~~【図 2】~~

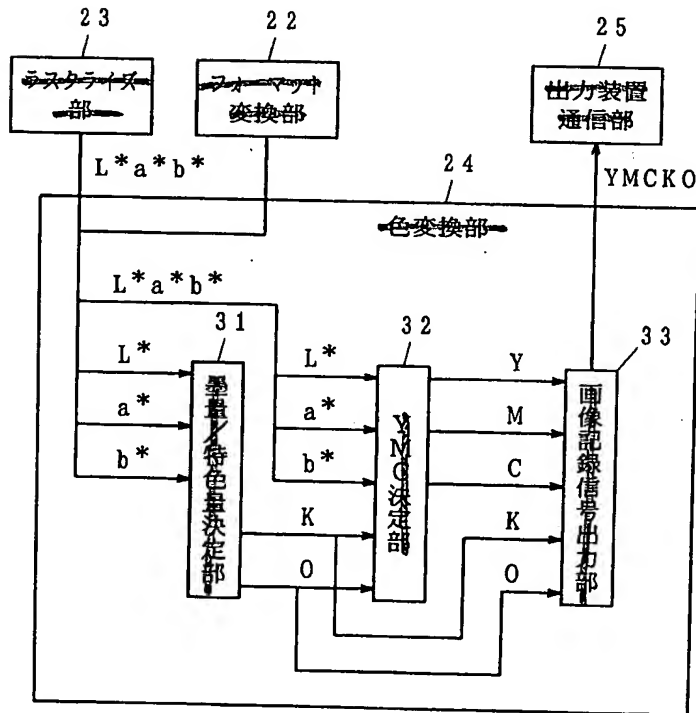


FIG. 1

- 11 ORIGINAL EDIT APPARATUS
- 12 IMAGE PROCESSING APPARATUS
- 13 IMAGE OUTPUT UNIT
- 21 EDIT APPARATUS COMMUNICATION SECTION
- 22 FORMAT CONVERSION SECTION
- 23 RASTERIZING SECTION
- 24 COLOR CONVERSION SECTION
- 25 OUTPUT UNIT COMMUNICATION SECTION

FIG. 2

- 22 FORMAT CONVERSION SECTION
- 23 RASTERIZING SECTION
- 24 COLOR CONVERSION SECTION
- 25 OUTPUT UNIT COMMUNICATION SECTION
- 31 BLACK AMOUNT/SOLID COLOR AMOUNT DETERMINATION SECTION
- 32 YMC DETERMINATION SECTION
- 33 IMAGE RECORD SIGNAL OUTPUT SECTION

—[图3]—

Fig. 3

in color gamut

K	O	$\Delta E^*_{ab}$	色域内
0	0	0	○
0	25	0	○
0	50	0	○
0	75	0	○
0	100	2	×
25	0	0	○
25	25	0	○
25	50	0	○
25	75	2	×
25	100	4	×
50	0	0	○
50	25	0	○
50	50	2	×
50	75	4	×
50	100	6	×
75	0	0	○
75	25	2	×
75	50	4	×
75	75	6	×
75	100	8	×
100	0	2	×
100	25	4	×
100	50	6	×
100	75	8	×
100	100	10	×

~~図 4~~ Fig. 4

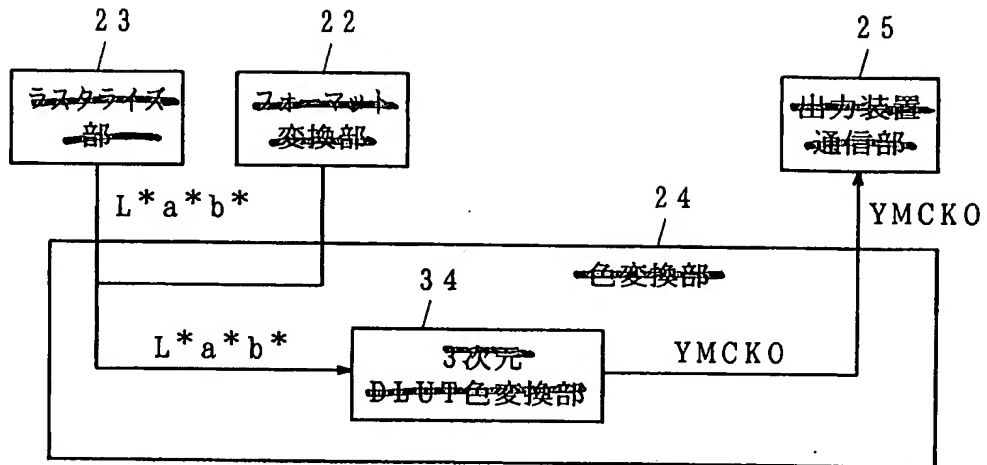


FIG. 4

- 22   FORMAT CONVERSION SECTION
- 23   RASTERIZING SECTION
- 24   COLOR CONVERSION SECTION
- 25   OUTPUT UNIT COMMUNICATION SECTION
- 34   THREE-DIMENSIONAL DLUT COLOR CONVERSION SECTION

Fig. 5

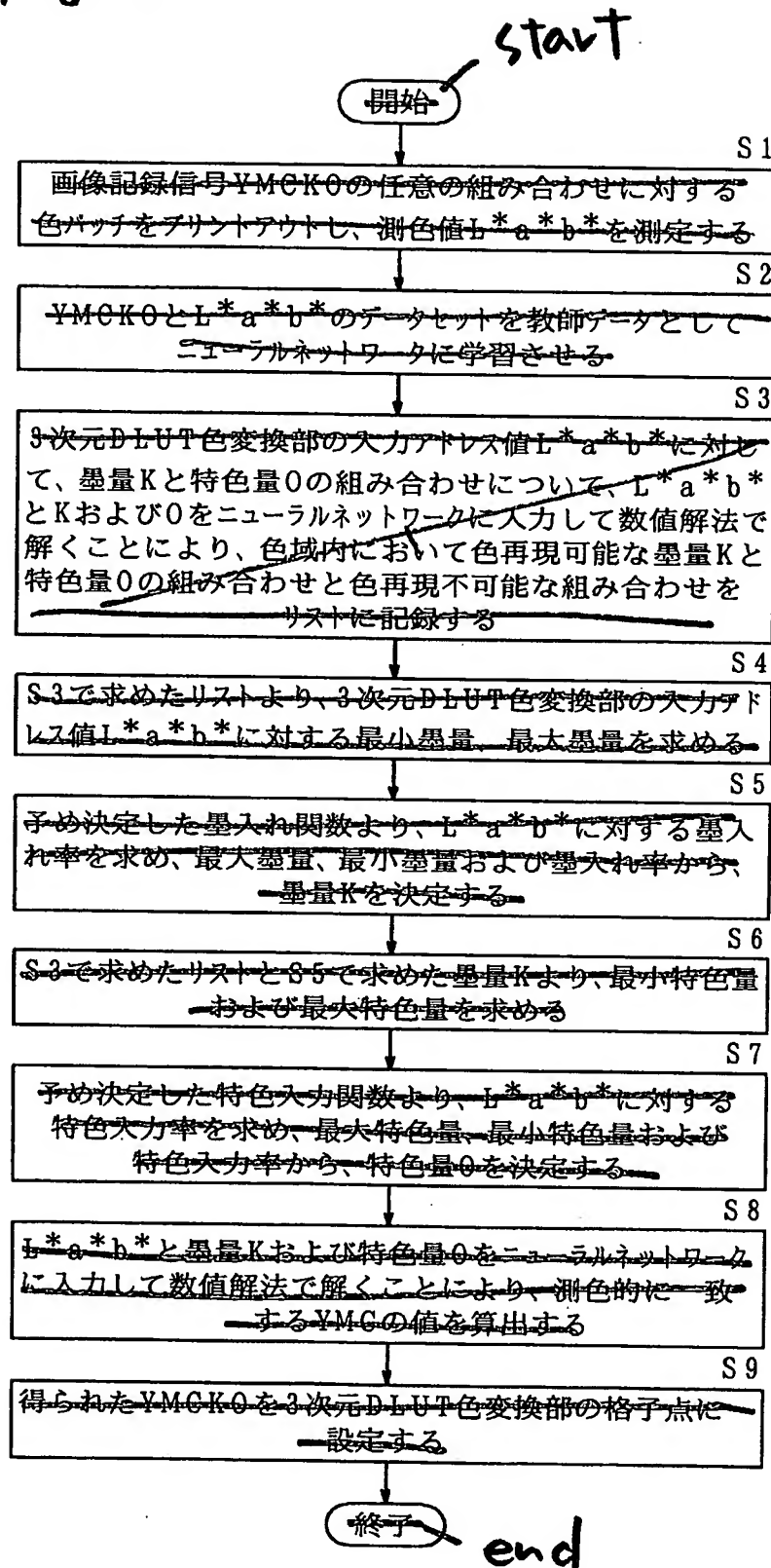


FIG. 5

S1 PRINT OUT COLOR PATCHES FOR ANY DESIRED COMBINATION OF IMAGE  
RECORD SIGNAL YMCKO AND MEASURE COLORIMETRIC VALUE  $L^*A^*B^*$

S2 MAKE NEURAL NETWORK LEARN YMCKO AND  $L^*A^*B^*$  DATA SETS AS  
TEACHER DATA

S3 FOR COMBINATIONS OF BLACK AMOUNT K AND SOLID COLOR AMOUNT  
O WITH RESPECT TO INPUT ADDRESS VALUE  $L^*A^*B^*$  OF THREE-DIMENSIONAL  
DLUT COLOR CONVERSION SECTION, INPUT  $L^*A^*B^*$ , K, AND O TO NEURAL  
PNETWORK (COLOR CONVERSION MODEL) AND SOLVE NEURAL NETWORK BY  
NUMERIC RESOLUTION METHOD, THEREBY RECORDING COMBINATIONS OF  
BLACK AMOUNT K AND SOLID COLOR AMOUNT O FOR MAKING COLOR  
REPRODUCTION POSSIBLE IN COLOR GAMUT AND COMBINATIONS FOR MAKING  
COLOR REPRODUCTION IMPOSSIBLE IN LIST

S4 FIND MINIMUM AND MAXIMUM BLACK AMOUNTS WITH RESPECT TO INPUT  
ADDRESS VALUE  $L^*A^*B^*$  OF THREE-DIMENSIONAL DLUT COLOR CONVERSION  
SECTION ACCORDING TO LIST PROVIDED AT STEP S3

S5 FIND BLACK MIXING RATIO TO  $L^*A^*B^*$  ACCORDING TO PREDETERMINED  
BLACK MIXING FUNCTION, AND DETERMINE BLACK AMOUNT K FROM MAXIMUM  
AND MINIMUM BLACK AMOUNTS AND BLACK MIXING RATIO

S6 FIND MINIMUM AND MAXIMUM SOLID COLOR AMOUNTS ACCORDING TO  
LIST PROVIDED AT STEP S3 AND BLACK AMOUNT K FOUND AT STEP S5

S7 FIND CHROMATIC UCR RATIO TO  $L^*A^*B^*$  ACCORDING TO  
PREDETERMINED SOLID COLOR INPUT FUNCTION, AND DETERMINE SOLID  
COLOR AMOUNT O FROM MAXIMUM AND MINIMUM SOLID COLOR AMOUNTS

AND CHROMATIC UCR RATIO

S8 INPUT  $L^*A^*B^*$ , BLACK AMOUNT K, AND SOLID COLOR AMOUNT O TO NEURAL NETWORK AND SOLVE NEURAL NETWORK BY NUMERIC RESOLUTION METHOD, THEREBY CALCULATING VALUE OF YMC COLORIMETRICALLY MATCHING

S9 SET OBTAINED YMCKO IN LATTICE POINTS OF THREE-DIMENSIONAL DLUT COLOR CONVERSION SECTION



# Fig.6

【図6】

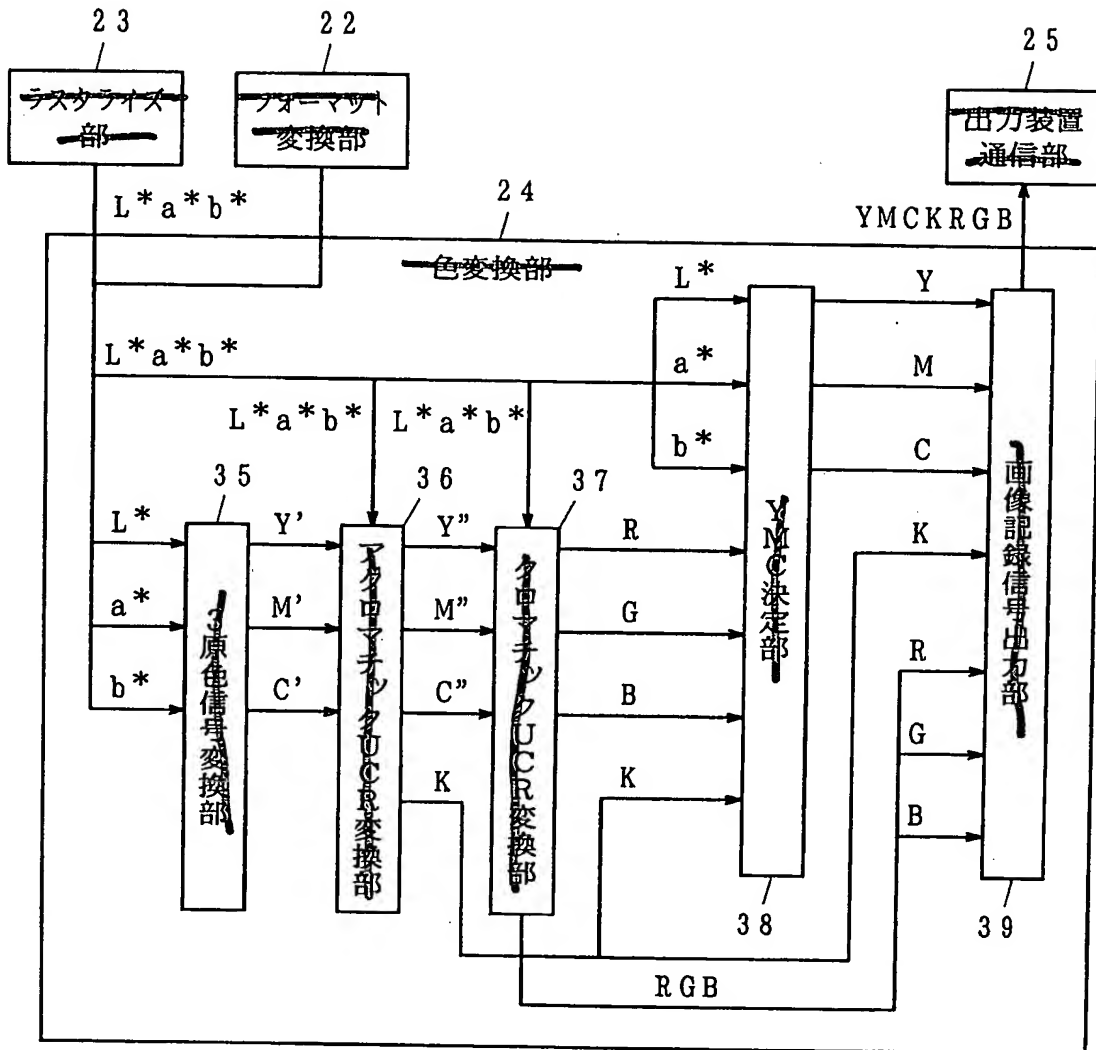


FIG. 6

- 22    FORMAT CONVERSION SECTION
- 23    RASTERIZING SECTION
- 24    COLOR CONVERSION SECTION
- 25    OUTPUT UNIT COMMUNICATION SECTION
- 35    THREE PRIMARY COLOR SIGNAL CONVERSION SECTION
- 36    ACHROMATIC UCR CONVERSION SECTION
- 37    CHROMATIC UCR CONVERSION SECTION
- 38    YMC DETERMINATION SECTION
- 39    IMAGE RECORD SIGNAL OUTPUT SECTION

~~図 7~~ Fig. 7

